US-PAT-NO: 6320980

DOCUMENT-IDENTIFIER: US 6320980 B1
See image for Certificate of Correction

TITLE: Image processing apparatus
and method, and recording
                       medium

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INVENTOR-INFORMATION:

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FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	7-255141	October 2, 1995
JP	7-255142	October 2, 1995

US-CL-CURRENT: 382/167, 358/518

ABSTRACT:

   The present invention provides an image
processing method for obtaining a
conversion parameter to be used for a signal
conversion process between body
color image data and light source color image data,

said method comprising the
steps of calculating a conversion parameter to
match color sight between a body
color and a light source color with each other, for
each of a plurality of
representative colors and calculating the
conversion parameter to be used for
the signal conversion process, on the basis of the
plurality of conversion
parameters for each of the plurality of
representative colors, whereby a
conversion coefficient applicable to an entire
image can be obtained, and the
signal conversion process between the body color
and the light source color can
be performed well without being affected by any
characteristic of device.

15 Claims, 13 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

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Detailed Description Text - DETX (27):
   In a conversion unit 2 (303), the X_2
Y_2 Z_2 light source color
image data is converted into the R_2 G_2
B_2 light source color
image data dependent on the monitor, on the basis
of a monitor profile 306.
That is, the conversion process based on the
monitor characteristic of the
monitor 30 is performed by the conversion unit 2,
so that the X_2 Y_2
Z_2 light source color image data can be
faithfully reproduced on the

monitor 30. The monitor profile 306 stores the
monitor characteristics, e.g.,
a gamma **characteristic, a color conversion matrix**
(XYZ.fwdarw.monitor-dependent
RGB) based on a **hue** of fluorescent body, a **hue** of
white point, a color
temperature and the like, an LUT and the like.